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CLAIMS:

What is claimed is:

- 1 1. A method for synchronizing transactions comprising:
2 executing a series of commands at a first computing
3 entity; and
4 relaying the series of commands to a second
5 computing entity such that the second computing entity
6 lags behind the first computing entity by an amount of
7 lag that is no greater than a specified synchronicity
8 setting.
- 1 2. The method of claim 1, wherein the first computing
2 entity is a computer peripheral.
- 1 3. The method of claim 2, wherein the computer
2 peripheral is a storage system.
- 1 4. The method of claim 1, wherein the first computing
2 entity is a computer.
- 1 5. The method of claim 1, wherein the first computing
2 entity is a computer program.
- 1 6. The method of claim 1, wherein the amount of lag and
2 the specified synchronicity setting are measured as
3 numbers of commands executed.

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1 7. The method of claim 1, wherein the amount of lag and
2 the specified synchronicity setting are measured as
3 amounts of time.

1 8. The method of claim 1, wherein the amount of lag and
2 the specified synchronicity setting are measured as
3 amounts of data.

1 9. The method of claim 1, wherein the amount of lag and
2 the specified synchronicity setting are measured as
3 numbers of devices with outstanding commands to execute.

1 10. The method of claim 1, wherein the second computing
2 entity is a computer peripheral.

1 11. The method of claim 10, wherein the computer
2 peripheral is a storage system.

1 12. The method of claim 1, wherein the second computing
2 entity is a computer.

1 13. The method of claim 1, wherein the second computing
2 entity is a computer program.

1 14. The method of claim 1, wherein the series of
2 commands is for a peer-to-peer remote copy operation.

1 15. A computer program product in a computer-readable
2 medium comprising functional descriptive data that, when

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3 executed by a computer, enables the computer to perform
4 acts including:
5 executing a series of commands at a first computing
6 entity; and
7 relaying the series of commands to a second
8 computing entity such that the second computing entity
9 lags behind the first computing entity by an amount of
10 lag that is no greater than a specified synchronicity
11 setting.

1 16. The computer program product of claim 15, wherein
2 the first computing entity is a computer peripheral.

1 17. The computer program product of claim 16, wherein
2 the computer peripheral is a storage system.

1 18. The computer program product of claim 15, wherein
2 the first computing entity is the computer.

1 19. The computer program product of claim 15, wherein
2 the first computing entity is a computer program.

1 20. The computer program product of claim 15, wherein
2 the amount of lag and the specified synchronicity setting
3 are measured as numbers of commands executed.

1 21. The computer program product of claim 15, wherein
2 the amount of lag and the specified synchronicity setting
3 are measured as amounts of time.

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1 22. The computer program product of claim 15, wherein
2 the amount of lag and the specified synchronicity setting
3 are measured as amounts of data.

1 23. The computer program product of claim 15, wherein
2 the amount of lag and the specified synchronicity setting
3 are measured as numbers of devices with outstanding
4 commands to execute.

1 24. The computer program product of claim 15, wherein
2 the second computing entity is a computer peripheral.

1 25. The computer program product of claim 24, wherein
2 the computer peripheral is a storage system.

1 26. The computer program product of claim 15, wherein
2 the second computing entity is a computer.

1 27. The computer program product of claim 15, wherein
2 the second computing entity is a computer program.

1 28. The computer program product of claim 15, wherein
2 the series of commands is for a peer-to-peer remote copy
3 operation.

1 29. A computer program product in a computer-readable
2 medium comprising functional descriptive data that, when
3 executed by a computer, enables the computer to perform
4 acts including:

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5 copying extents of data from a host to a first
6 storage system pursuant to instructions from the host;
7 relaying the instructions to a second storage system
8 such that the second storage system lags behind the first
9 storage system in copying the extents of data by an
10 amount of lag that is no greater than a specified
11 synchronicity setting.

1 30. The computer program product of claim 29, wherein
2 the amount of lag and the specified synchronicity setting
3 are measured as numbers of instructions executed.

1 31. The computer program product of claim 29, wherein
2 the amount of lag and the specified synchronicity setting
3 are measured as amounts of time.

1 32. The computer program product of claim 29, wherein
2 the amount of lag and the specified synchronicity setting
3 are measured as amounts of data.

1 33. A data processing system comprising:
2 a processing unit including at least one processor;
3 memory; and
4 a set of instructions within the memory,
5 wherein the processing unit executes the set of
6 instructions to perform acts including:
7 executing a series of commands; and
8 relaying the series of commands to a second
9 computing entity such that the second computing entity
10 lags behind the data processing system by an amount of

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11 lag that is no greater than a specified synchronicity
12 setting.

1 34. The data processing system of claim 33, wherein the
2 amount of lag and the specified synchronicity setting are
3 measured as numbers of commands executed.

1 35. The data processing system of claim 33, wherein the
2 amount of lag and the specified synchronicity setting are
3 measured as amounts of time.

1 36. The data processing system of claim 33, wherein the
2 amount of lag and the specified synchronicity setting are
3 measured as amounts of data.

1 37. The data processing system of claim 33, wherein the
2 amount of lag and the specified synchronicity setting are
3 measured as numbers of devices with outstanding commands
4 to execute.

1 38. The data processing system of claim 33, wherein the
2 second computing entity is a computer peripheral.

1 39. The data processing system of claim 38, wherein the
2 computer peripheral is a storage system.

1 40. The data processing system of claim 33, wherein the
2 second computing entity is a computer.

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1 41. The data processing system of claim 33, wherein the
2 second computing entity is a computer program.

1 42. The data processing system of claim 33, wherein the
2 series of commands is for a peer-to-peer remote copy
3 operation.

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